MMM MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM		\$	GGGGGGGGGG GGGGGGGGGGG GGGGGGGGGGGGGGG	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		LLL LLL LLL
MMMM MMMMM		SSS	GGG	FFF	III	řřř
MMMM MMM		SSS	GGG	fff	111	LLL
		SSS	666	FFF	!!!	LLL
		\$\$\$	GGG	fff	‡ ‡ ‡	LLL
	MMM	SSS	666	fff	‡ ‡ ‡	LLL
	MMM	\$\$\$\$\$\$\$\$\$	666	FFFFFFFFFFF FFFFFFFFF	111	LLL
		\$\$\$\$\$\$\$\$\$	666		‡ ‡ ‡	LLL
	4MM 4MM	SSSSSSSS	GGG GGGGGGG	FFFFFFFFFF FFF	‡‡ ‡	LLL
	4MM	\$ \$ \$	GGG GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	FFF	‡ ‡ ‡	LLL
	1MM	\$\$\$ \$\$\$	GGG GGGGGGG	FFF	111	LLL
	4MM	\$\$\$	GGG GGG	FFF	111	LLL LLL
	4MM	\$\$\$	GGG GGG	FFF	† † †	LLL
	4MM	\$\$\$	GGG GGG	FFF	111	LLL
		SSSSSSSSSS	66666666	FFF	111111111	111111111111
		\$\$\$\$\$\$\$\$\$\$\$\$\$	GGGGGGGG	FFF	11111111	1111111111111
		\$\$\$\$\$\$\$\$\$\$\$\$\$	GGGGGGGG	FFF	iiiiiiiii	

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	VV	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	MM MM MMM MMM MMMM MMMM MMMM MM MM MM MM	\$	GGGGGGG GGGGGGG GG GG GG GG GG GG GG GG	••••
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PROGRAM CVTMSG

Version: 'V04-000'

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Abstract:

The following is a mutation of SYSMSG.FOR for the purpose of translating MDL message file data into syntax appropriate for the Message File Compiler

Author: Tim Halvorsen, Dec 1980

Modified by:

V004 TMH0004 Tim Halvorsen 20-Jan-1981 Output /MACRO whenever the macro suffix is non-null as well as when the macro name is different. Use macro name prefix on single C constructs with \$C infix rather than no prefix at all, which is incorrect.

V003 TMH0003 Tim Halvorsen 19-Jan-1981 Accept macro name suffixes and output them correctly when generating a /MACRO=macnam construct.

V002 TMH0002 Tim Halvorsen 22-Oct-1980 rix OPEN_OUTPUT to extract file name portion of output filespec correctly when no directory portion is present.

001 TMH0001 Tim Halvorsen 10-Mar-1980 Generate .LITERAL statement for MDL C constructs 16-Sep-1984 02:16:11 5-Sep-1984 15:13:15

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```

```
0058
0059
0060
0061
0062
0063
0065
0066
0067
0068
              C BASIC VARIABLES USED:
                            FACILITIES = ARRAY OF FACILITY NAME STRINGS (INDEXED BY FACNUM)
                            MACRO_NAME = MACRO NAME STRING
                            MACRU SUFFIX = MACRO SUFFIX STRING
                            PREFIX = SYMBOL PREFIX STRING
                           NAME = NAME RETURNED BY GETIDENT (CURRENT TOKEN)

COL = CURRENT COLUMN NUMBER

LINE = CURRENT LINE

SYMBOL NAME = MESSAGE GLOBAL SYMBOL NAME

NUM = VALUE RETURNED BY GETNUM

OUTLINE = OUTPUT LINE (NEW FORMAT)

OUTCOL = OUTPUT COLUMN
0069
0070
0071
0072
                            INCLUDE 'SRCS: CVTMSGCOM'
0116
                           LOGICAL*1 GETNUM, GETIDENT, GENCMP, UNBLNK, GETLIN, NEXTFILE
0117
0118
                           READ THE FACILITY NAME TABLE (SUBSYSIDS.DAT)
0119
0120
0121
0122
0123
0124
0125
0126
0127
0128
0129
0130
                           CALL MAKSUBS
                           OPEN THE LIST OF FILE SPECIFICATIONS AND OUTPUT FILE
                           CALL SETUPFILE
                           ERRCNT=0
                           OPEN THE NEXT MOL FILE TO PROCESS
              60
                           IF (NEXTFILE().EQ..FALSE.) GOTO 2000
                           CALL OPEN OUTPUT
0131
              70
                           MACRO NAME(1)=0
0132
                           LASTPREFIX(1)=0
0133
                           LASTFACNUM=-1
0134
0135
              C
                           EXAMINE THE NEXT LINE IN THE MDL FILE
0136
0137
              100
                           IF (GETLIN().EQ..FALSE.) GOTO 60 IF (UNBLNK().EQ.';') GOTO 100
0138
0139
                                (UNBLNK().EQ.0) GOTO 100
                           IF (GETIDENT().EQ..FALSE.) GOTO 90
IF (GENCMP(%REF('$STRUCT').NAME)) GOTO 200
IF (GENCMP(%REF('C').NAME)) GOTO 300
IF (GENCMP(%REF('K').NAME)) GOTO 300
IF (GENCMP(%REF('Y').NAME)) GOTO 400
IF (GENCMP(%REF('F').NAME)) GOTO 100
0140
0141
0142
0144
                           IF (GENCMP(%REF('S'), NAME)) GOTO 100
IF (GENCMP(%REF('L'), NAME)) GOTO 100
IF (GENCMP(%REF('M'), NAME)) GOTO 100
IF (GENCMP(%REF('P'), NAME)) GOTO 100
0146
0147
0148
0149
0150
0151
                           CALL ERROR(1, SYNTAX)
GOTO 100
              90
0152
0153
              200
                           CALL STRUCT
0154
                           GOTO 70
0155
0156
              300
                           CALL EVALC
0157
                           GOTO 100
```

0158 0159 0160 0161 0162 0163 0164 0165 0166 0167 0168 0169 CALL SKIPV GOTO 100 400 CLOSE (UNIT=3)
IF (ERRCNT.NE.O) THEN
TYPE 2299, ERRCNT 2000 END IF FORMAT(' Errors detected:',15) 2299 END

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PROGRAM SECTIONS

Name	Bytes	Attributes
O \$CODE 1 \$PDATA 2 \$LOCAL 3 TEXT 4 VARS 5 LOGVAR 6 OUT 7 FACNAMS	329 50 144 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	65071	

ENTRY POINTS

Address Type Name
0-00000000 CVTMSG

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-0000014 6-0000080 6-0000090 2-0000004		BINVAL CURSEV LASTFACNUM SYNTAX	4-00000000 4-0000010 4-00000000	1+4	CODE ERRCNT NUM	4-00000004 2-0000000 6-0000000	Ĺ*1	COL GETNUM OUTCOL	6-0000088 4-0000008 5-0000000		CURNUM INDEX OUTFLAG

ARRAYS

Address	Туре	Name	Bytes	Dimensions
7-0000000 3-000000E4 6-00000094 3-00000000 3-00000134 3-000000A4 6-00000004 3-00000064	1 * 1 1 * 1 1 * 1 1 * 1 1 * 1 1 * 1 1 * 1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 32 152 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-000001D 0-00000F	60 400	0-00000033 0-0000109	70 2000	0-000000E0 1-000001C	90 2299'	0-00000046	100	0-000000EB	200	0-000000F5	300

VAX-11 FORTRAN V3.4-56 Page 5 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR; T

GET

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
L+1	ERROR GETLIN STRUCT	ı +1	EVALC MAKSUBS UNBLAK	L+1	FORSCLOSE NEXTFILE		FORSEXIT OPEN_OUTPUT	L+1	GENCMP SETUPFILE	L+1	GETIDENT SKIPV

```
0001
5000
50003
                        CONSTRUCT THE FACILITIES ARRAY BY READING THE FILE 'SUBSYSIDS'
0004
                       SUBROUTINE MAKSUBS
INCLUDE 'SRC$:CVTMSGCOM'
LOGICAL*1 FACNAM(MAXSYMSIZ)
0005
0006
0050
0051
0052
0053
0054
0055
0056
                        DO 10 I=1, MAXFAC+1
FACILITIES(1, I)=0
            10
                        OPEN (UNIT=1, NAME='SUBSYSIDS', TYPE='OLD', READONLY, ERR=900)
0057
0058
0059
0060
0061
0062
0063
                       READ(1,99,END=400) FACNUM, FACLEN, (FACNAM(I), I=1, FACLEN) FORMAT(I5,Q,120A1) IF(FACLEN.GI.MAXSYMSIZ-1) THEN
            100
99
                                    FACNAM(MAXSYMSIZ)=0
                                    CALL ERROR (14, SUBNAMLONG)
                        END IF
                        FACNAM(FACLEN+1)=0
0064
                        CALL MOVNAM(FACNAM, FACILITIES(1, FACNUM+1))
GOTO 100
0065
0066
0067
            400
                        CLOSE (UNIT=1)
0068
                        RETURN
0069
0070
            900
                        CALL ERROR(15, FILNOTFND)
                        RETURN
END
0071
0072
```

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MAKSUBS						•	G 7 16-Sep-1984 02 5-Sep-1984 15	:16:1	11	VAX-11 FORT	TRAN V3.4-56 STER:[MSGFIL.S	eclev	Page TMSG FOR:1
PROGRAM SECT	IONS) Jep 1704 17	. , , , ,		VISKOVNSNA.	oren.emgurie.g	, K C J C ¥	imad.ruk; i
Name			Bytes	Attri	butes								
O SCODE 1 SPDATA 2 SLOCAL 3 TEXT 4 VARS 5 LOGVAR 6 OUT 7 FACNAMS	ace Al	located	190 26 136 324 24 164 64032 64900	PIC C PIC O PIC O	VR REL VR REL	LCL GBL GBL GBL GBL	SHR EXE SHR NOEXE NOSHR NOEXE SHR NOEXE SHR NOEXE SHR NOEXE SHR NOEXE SHR NOEXE		WRT WRT WRT	LONG LONG LONG LONG LONG LONG			
ENTRY POINTS													
Address	Type	Name											
0-0000000		MAKSUBS											
VARIABLES													
Address	Туре	Name	Address Ty	ype Na	ne		Address	Туре	e Nam	e	Address	Туре	Name
4-00000014 6-0000080 2-0000030 4-0000000	1 * 4 1 * 4 1 * 4	BINVAL CURSEV FILNOTFND NUM	4-0000010 2-0000020	I * 4 I	DE RCNT TCOL		4-0000004 2-0000028 4-0000008 5-0000000		FAC IND		6-00000088 2-00000024 6-00000090 2-00000020	[* 4 [* 4 [* 4	CURNUM FACNUM LASTFACNUM SUBNAMLONG
ARRAYS													
Address	Туре	Name	Bytes Di	imensio	าร								
7-0000000 2-0000000 3-00000064 6-00000094 3-0000000 3-00000134 3-000000A4 6-00000004 3-00000064	L+1	FACILITIES FACNAM FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	32 (3 80 (8 16 (1 132 (1 16 (1 32 (3 132 (1	32, 200 32) 80) 16) 132) 16) 32) 132) 16) 32)	1)								

Address Label

0-000000AC 400

Address Label

0-000000B5 900

Address Label

0-0000030 100

LABELS

Address

Label

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Address

1-00000012 99'

Label

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VAX-11 FORTRAN V3.4-56 Page DISK\$VMSMASTER: [MSGFIL.SRC]CVTMSG.FOR; 1

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name Type Name Type Name Type Name ERROR FOR\$CLOSE FORSOPEN MOVNAM

0001 0002 0003 0004 0005 0049 0050 0051 0052 0053 OPEN THE FILE CONTAINING THE LIST OF FILES

SUBROUTINE SETUPFILE
INCLUDE 'SRC\$:CVTMSGCOM'
OPEN (UNIT=3,NAME='FILES',TYPE='OLD',READONLY,ERR=100)
RETURN

CALL ERROR (9, FILNOTFND)
RETURN 100

END

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```
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15
SETUPFILE
                                                                                                     VAX-11 FORTRAN V3.4-56
                                                                                                                                              Page 10
                                                                                                     DISK$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR:T
PROGRAM SECTIONS
                                               Bytes Attributes
    Name
  O SCODE
                                                  30
10
                                                        PIC CON REL LCL
                                                                             SHR EXE
                                                                                           RD NOWRT LONG
  1 SPDATA
                                                                                           RD NOWRT LONG
                                                        PIC CON REL LCL NOSHR NOEXE
PIC OVR REL GBL SHR NOEXE
                                                 56
324
24
  2 SLOCAL
3 TEXT
                                                                                           RD
                                                                                                WRT LONG
                                                                                           RD
                                                                                                WRT LONG
  4 VARS
                                                                                                WRT LONG
                                                                                           RD
  5 LOGVAR
                                                                                                WRT LONG
                                                                                           RD
                                                 164
  6 OUT
                                                                                                WRT LONG
                                                                                           RD
                                               64032
  7 FACNAMS
                                                        PIC OVR REL GBL
                                                                             SHR NOEXE
                                                                                           RD
                                                                                                WRT LONG
    Total Space Allocated
                                               64644
ENTRY POINTS
    Address Type Name
  0-00000000
                     SETUPFILE
VARIABLES
    Address Type Name
                                          Address Type Name
                                                                                Address Type
                                                                                                Name
                                                                                                                      Address Type Name
  4-0000014 I*4 BINVAL
                                        4-0000000C
                                                     1*4
                                                            CODE
                                                                              4-00000004
                                                                                                                    6-00000088
                                                                                                                                        CURNUM
                                                                                                                                 1*4
  6-000008C I+4 CURSEV
                                        4-00009010 I*4
                                                           ERRCNT
                                                                              2-00000000 I*4
                                                                                                 FILNOTFND
                                                                                                                    4-00000008
                                                                                                                                  α4
                                                                                                                                       INDEX
  6-00000090 I+4 LASTFACNUM
                                        4-00000000
                                                     I×4
                                                           NUM
                                                                              6-00000000 I*4
                                                                                                                    5-00000000 I+4
                                                                                                  OUTCOL
                                                                                                                                        OUTFLAG
ARRAYS
    Address Type Name
                                            Bytes Dimensions
  7-00000000 L±1
                                             64032
                     FACILITIES
                                                     (32, 2001)
  3-000000E4
               L*1
                     FSPEC
                                                80 (80)
                                               16 (16)
132 (132)
  6-00000094
               L+1
                     LASTPREF IX
  3-00000000
               L±1
                     LINE
                     MACRO_NAME
  3-00000094
                L*1
                                                     (16)
                                                    (16)
(32)
(132)
                                               16
32
132
  3-00000134
                     MACRO_SUFFIX
  3-000000A4
                     NAME
  6-00000004
               L*1
                     OUTLINE
                                                     (16)
(32)
  3-00000084
               L*1
                     PREFIX
  3-000000C4 L+1 SYMBOL_NAME
LABELS
               Label
    Address
  0-00000015 100
```

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VAX-11 FORTRAN V3.4-56 Page 11 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

Type Name

ERROR

FORSOPEN

0

50

99

300 100

ENL

OPEN THE NEXT FILE IN THE LIST OF FILES TO PROCESS

LOGICAL FUNCTION NEXTFILE*1
INCLUDE 'SRC\$:CVTMSGCOM'
CLOSE (UNIT=1)
NEXTFILE=.FALSE.
READ(3,99,END=300) I,FSPEC
FORMAT(0,80A1)
FSPEC(I+1)=0
OPEN (UNIT=1,NAME=FSPEC,TYPE='OLD',READONLY,ERR=100)
NEXTFILE=.TRUE.
RETURN
CALL FROOR(10 FILMOTEND)

CALL FPROR(10, FILNOTFND)
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PROGRAM	SECTI	ON:
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Name	Bytes	Attributes
O \$CODE 1 \$PDATA 2 \$LOCAL 3 TEXT 4 VARS 5 LOGVAR 6 OUT 7 FACNAMS	109 10 80 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64747	

ENTRY POINTS

Address Type Name

0-00000000 L+1 NEXTFILE

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-0000014 6-0000080 4-0000008	I+4	CURSEV INDEX	4-0000000C 4-00000010 6-0000090	Ī *4	CODE ERRCNT LASTFACNUM	4-00000004 2-00000008 4-00000000	1 * 4	COL FILNOTFND NUM	6-00000088 2-00000004 6-00000000	Ī *4	CURNUM I OUTCOL

ARRAYS

Address	Туре	Name	Bytes	Dimensions
7-0000000 3-000000E4 6-00000094 3-00000094 3-00000134 3-000000A4 6-00000004 3-00000064	L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 32 132 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label
0-00000009	50	1-00000004	99'	0-00000063	100	0-000005E	300

NEXTFILE

N 7 16-Sep-1984 02:16:11 5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 14 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR; T

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

Type Name

Type Name

ERROR

FOR\$CLOSE

FORSOPEN

```
0001
0002
0003
0004
0005
0049
          Č
                     PROCESS MESSAGE DEFINITION LINE
                     SUBROUTINE GETMSG
                     INCLUDE 'SRC$: CVTMSGCOM'
LOGICAL*1 TEXT(128)
0050
0051
0052
0053
0054
                     LOGICAL*1 GETNUM, GETIDENT, GENCMP, UNBLNK, IDENT LOGICAL*1 IDSTR(20)
                     LOGICAL+1 VECT(7)
                     LOGICAL+1 NEED BLANK
                     LOGICAL+1 FACNAM (MAXSYMSIZ)
0055
                     LOGICAL+1 LITERAL_NAME (MAXSYMSIZ)
0056
0057
                     OUTPUT .LITERAL IF ":MSG" NOT FOUND TO SIGNIFY MESSAGE DEFINITION
0058
0059
                     CALL CONCAT(PREFIX, SYMBOL_NAME, LITERAL_NAME)
0060
                     COL=COL+1
                     IF (.NOT.GETIDENT().OR..NOT.GENCMP(NAME, %REF('MSG'))) THEN
0061
0062
0063
                               CALL CONCAT(PREFIX, **REF('FACILITY'), NAME)
                               IF (IDENT (NAME, LITERAL NAME)) RETURN CALL BUFFER (XREF ( LITERAL
0064
                                                                                   1))
0065
                               CALL BUFFER (LITERAL NAME)
(ALL BUFFER (TREF ('="))
0066
0067
                               CALL BUFNUM(CODE)
0068
                               CALL OUTPUT_LINE
0069
                               RETURN
0070
                     END IF
0071
0072
                     IF THE FACILITY LINE HAS NOT YET BEEN OUTPUT, THEN
0073
                     OUTPUT IT NOW.
0074
0075
                     NEED BLANK=.FALSE.
                     FACNUM=(CODE.AND. OFFF0000'X)/2**16
0076
0077
                     CALL MOVNAM(FACILITIES(1,FACNUM+1),FACNAM)
0078
                     IF (FACNUM EQ.LASTFACNUM.AND.IDENT(PREFIX, LASTPREFIX)) GOTO 20
0079
                     IF(IDENT(MACRO_NAME, %REF('SHR'))) CALL MOVNAM(MACRO_NAME, FACNAM)
0080
                     CALL BUFFER (TREF ('
                                                    .FACILITY
0081
                     CALL BUFFER (FACNAM)
0082
                     CALL BUFFER (TREF ('.'))
                     CALL BUFNUM (FACNUM)
0083
                     IF ((CODE.AND.'8000'X).EQ.0) CALL BUFFER(%TREF(' /SHARED'))
IF (CODE.GE.0) CALL BUFFER(%TREF(' /SYSTEM'))
0084
0085
                     CALL CONCAT (FACNAM, **XREF('$_'), NAME)

IF (.NOT.IDENT(NAME, PREFIX)) THEN

CALL BUFFER(**XREF(' /PREFIX='))
0086
0087
0088
0089
                               CALL BUFFER (PREFIX)
0090
                     END IF
                     IF (.NOT.IDENT(FACNAM, MACRO_NAME).OR.LENGTH(MACRO_SUFFIX).NE.0) THEN CALL BUFFER(XREF(' 7MACRO='))
0091
0092
                               CALL BUFFER (TREF ('$'))
0093
                               CALL BUFFER (MACRO NAME)
IF (LENGTH (MACRO_SUFFIX).NE.0) THEN
0094
0095
0096
                                          CALL BUFFER (MACRO_SUFFIX)
0097
                               ELSE
0098
                                          CALL BUFFER(%REF('DEF'))
```

END IF

END IF

0099

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C 8
16-Sep-1984 02:16:11 VAX
5-Sep-1984 15:13:15 DIS
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VAX-11 FORTRAN V3.4-56 Page 16 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0101
                       CALL OUTPUT_LINE
0102
                        CALL MOVNAM TPREFIX, LASTPREFIX)
                        LASTFACNUM=FACNUM
0104
                        CURNUM=1
0105
                        CURSEV=7
0106
                       NEED_BLANK=.TRUE.
CONTINUE
0108
0109
                        IF THE SEVERITY HAS CHANGED, OUTPUT A SEVERITY STATEMENT
0110
0111
                       IF ((CODE.AND.7).NE.CURSEV) THEN
                                  DE.AND.7).NE.CURSEV) THEN

CURSEV=CODE.AND.7

IF (.NOT.NEED_BLANK) CALL OUTPUT LINE

CALL BUFFER(%REF(' .SEVERITY '))

IF (CURSEV.EQ.0) CALL BUFFER(%REF('WARNING'))

IF (CURSEV.EQ.1) CALL BUFFER(%REF('SUCCESS'))

IF (CURSEV.EQ.2) CALL BUFFER(%REF('ERROR'))

IF (CURSEV.EQ.3) CALL BUFFER(%REF('INFORMATIONAL'))

IF (CURSEV.EQ.4) CALL BUFFER(%REF('FATAL'))

IF (CURSEV.EQ.4) CALL BUFFER(%REF('FATAL'))

CALL OUTPUT_LINE

NEED_BLANK=TRUE.
0112
0114
0115
0116
0117
0118
0119
0120
0121
0122
0123
                                   NEED_BLANK=TRUE.
                       END IF
0124
0125
0126
0127
0128
                       IF THE 1'-SSAGE NUMBER IS NOT PREV+1, THEN OUTPUT A .BASE STATEMENT
                       IF ((CODE.AND.'7FF8'X)/2**3.NE.CURNUM) THEN
                                   CURNUM = (CODE.AND.'7FF8'X)/2**3
0129
                                   IF (.NOT.NEED_BLANK) CALL OUTPUT LINE
0130
                                   CALL BUFFER (TREF ("
                                                                                            1))
                                                                     .BASE
0131
                                   CALL BUFNUM (CURNUM)
0132
                                   CALL OUTPUT_LINE
                                   NEED_BLANK=.TRUE.
0134
                       END IF
0135
                       CURNUM = CURNUM + 1
0136
0137
0138
                       IF (NEED_BLANK) CALL OUTPUT_LINE
0139
                       DO 50 I=1.7
0140
           50
                       VECT(1)=0
0141
                       GOTO 200
0142
           150
                        IF (UNBLNK().NE.',') GOTO 1000
                       COL=COL+1
0144
           200
                        IF (UNBLNK().Eq. '<') GOTO 800
                        IF (GETIDENT()) GOTO 300
0146
            250
                       CALL ERROR(11, BADMSGSYNTAX)
GOTO 2000
0148
            300
                       IF (GENCMP(NAME, %REF('IDENT'))) GOTO 500
                        IF (GENCMP(NAME, %REF('DETAIL'))) GOTO 550
0150
                       IF (GENCMP(NAME, XREF('USERVAL'))) GOTO 600 IF (GENCMP(NAME, XREF('FAO(NT'))) GOTO 650
           C
0151
0152
0153
           C
                        IF (GENCMP(NAME, TREF('LANG'))) GOTO 700
                       GOTO 250
            500
0154
                        IF (UNBLNK().NE.'=') GOTO 250
0155
                       COL = COL + 1
0156
                        IF (GETIDENT().EQ..FALSE.) GOTO 250
0157
                       VECT(7)=LENGTH(NAME)
```

```
0158
0159
0160
0161
0162
0163
                    CALL MOVNAM(NAME, IDSTR)
GOTO 150
ASSIGN 570 TO RETURN
GOTO 750
          550
          570
                    VECT(1)=NUM
                    GOTO 150
0164
                    ASSIGN 620 TO RETURN GOT 750
          600
                    VECT (3) = NUM
0166
0167
          620
                    GOTO 150
0168
          650
                    ASSIGN 670 TO RETURN
                    GOTO 750
VEC1(2)=NUM
0169
0170
          670
0171
                    GOTO 150
0172
                    ASSIGN 720 TO RETURN
          700
                    GOTO 750
0174
          720
                    VECT(5)=NUM
0175
                    GOTO 150
0176
0177
          750
                    IF (UNBLNK().NE.'=') GOTO 250
0178
                    COL=COL+1
0179
                    IF (GETNUM().EQ..FALSE.) GOTO 250
0180
                    GOTO RETURN
0181
0182
          800
                    COL=COL+1
                    IF (IDFLAG.EQ..FALSE..OR.VECT(7).NE.0) GOTO 830
0184
                    VECT (7) = LENGTH (SYMBOL_NAME)
0185
                    DO 820 I=1, MAXSYMSIZ
0186
0187
                    IDSTR(1)=SYMBOL_NAME(1)
                    IF (IDSTR(I).EQ.O) GOTO 830
0188
          820
                    CONTINUE
0189
                    CALL ERROR (12, IDTOOLONG)
0190
          830
                    TMPPTR=1
0191
          845
                    IF (LINE(COL).EQ.'>') GOTO 900
0192
          850
                    TEXT(TMPPTR)=LINE(COL)
                    TMPPTR=TMPPTR+1
0194
                    COL=COL+1
0195
                    IF (COL.LE.120) GOTO 845
0196
                    GO10 250
0197
          900
                    COL=COL+1
0198
                    IF (LINE(COL).EQ.'>') GOTO 850
0199
                    TEXT(TMPPTR)=0
0500
                    GOTO 150
0201
0202
0203
0204
0205
0206
0207
                    IF (UNBLNK().NE.'; '.AND.UNBLNK().NE.0) GOTO 250 CALL BUFFER(%REF( ''))
          1000
                    CALL BUFFER(SYMBOL_NAME)
                    IF (OUTCOL.LT.9) THEN
                              CALL BUFFER (TREF (*
                                                                      '))
                    ELSE
                              CALL BUFFER ( TREF ( *
                                                            '))
                    END IF
DO 1010 I=1.LENGTH(TEXT)
IF (TEXT(I).EQ.'>'.OR.TEXT(I).EQ.'<') GOTG 1020
0508
0210
0211
0212
0213
0214
          1010
                    CONTINUE
                    CALL BUFFER (TREF ('<'))
                    CALL BUFFER(TEXT)
```

END

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VAX-11 FORTRAN V3.4-56 Page 18 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;T

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PROGRAM SECTIONS

	Name	Bytes	Attributes
1 2 3 4 5 6 7	LOGVAR OUT FACNAMS	1323 211 764 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
	Total Space Allocated	66846	

ENTRY POINTS

Address Type Name

0-0000000 GETMSG

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-000000E4 6-0000088 2-00000E0 6-0000090	1 * 4 1 * 4 1 * 4	BADMSGSYNTAX CURNUM I LASTFACNUM DUTELAG	4-00000014 6-0000008C 2-000000EC 2-000000B	I*4 I*4 I*4 L*1	BINVAL CURSEV IDFLAG NEED BLANK	4-0000000 4-0000010 2-000000F0 4-00000064	I * 4 I * 4 I * 4 I * 4	CODE ERRCNT IDTOOLONG NUM IMPRIB	4-00000004 2-0000000C 4-00000008 6-00000000	[* 4 [* 4 [* 4	COL FACNUM INDEX OUTCOL

ARRAYS

Address	Туре	Name	Bytes	Dimensions
7-00000000 2-000009B 3-000000E4 2-0000080 6-00000000 2-000000BB 3-0000094 3-00000134 3-0000004 3-0000004 3-0000004 2-00000000000 2-000000000000000	**************************************	FACILITIES FACNAM FSPEC IDSTR LASTPREFIX LINE LITERAL NAME MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME TEXT VECT	64032 80 20 16 132 16 132 16 332 127	(32, 2001) (32) (80) (20) (16) (132) (16) (16) (132) (132) (16) (32) (128) (7)

BUFFER L±1 GETNUM

BUFNUM L+1 IDENT

GETMSG						G 8 16-Sep-1984 02: 5-Sep-1984 15:	16:11 13:15	VAX-11 FORTRA DISK\$VMSMASTE	N V3.4-5 R:[MSGF]	6 L.SRC]CVTMSG.F	Page (20
LABELS												
Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	
0-00001AB 0-00002FF 0-0000357 0-00003DC 0-00004DA	20 500 670 830 1020	0-000003E0 0-000004F5	50 550 700 84 5 1030	0-000002A8 0-00000337 0-00000362 0-000003F1 0-0000052A	150 570 720 850 2000	0-000002BE 0-0000036D 0-00000420	200 600 750 900	0-000002D9 0-00000342 0-0000039D 0-00000443	250 620 800 1000	0-000002E5 0-000034D	300 650 820 1010	
FUNCTIONS AND	SUBROUT	INES REFERENCE	D									
Type Name		Type Name		Type Name		Type Name		Type Name		Type Name		

ERROR MOVNAM

L+1 GENCMP OUTPUT_LINE

L*1 GETIDENT L*1 UNBLNK

CONCAT I*4 LENGTH

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0002
                 Č
                                 PROCESS MDL $STRUCT STATEMENT
 0004
                                 SUBROUTINE STRUCT
 0005
                                  INCLUDE 'SRC$: CVTMSGCOM'
                                 LOGICAL+1 GETIDENT UNBLAK GETNUM GETLIN IF (GETIDENT() .EQ. FALSE .) GOTO 100
 0049
 0050
                                 CALL MOVNAM(NAME, MACRO_NAME)

MACRO_SUFFIX(')=0

IF (UNBLNK().EQ.';'.OR.UNBLNK().EQ.0) GOTO 300

IF (UNBLNK().NE.',') GOTO 200
 0051
 0052
                 100
 0054
0055
                                 COL=COL+1
 0056
                                  IF (GETIDENT().EQ..FALSE.) GOTO 200
                                 CALL MOVNAM (NAME, MACRO_SUFFIX)
IF (UPBLNK().EQ.';'.OR.UNBLNK().EQ.0) GOTO 300
 0057
 0058
                 200
300
 0059
                                 CALL ERROR (1, SYNTAX)
                                CALL ERROR(1, SYNTAX)

IF (GETLIN().EQ..FALSE.) GOTO 800

IF (UNBLNK().EQ.':') GOTO 300

IF (UNBLNK().EQ.'E') GOTO 900

IF (UNBLNK().EQ.'E') GOTO 500

IF (UNBLNK().EQ.'K') GOTO 500

IF (UNBLNK().EQ.'K') GOTO 500

IF (UNBLNK().EQ.'Y') GOTO 300

IF (UNBLNK().EQ.'S') GOTO 300

IF (UNBLNK().EQ.'S') GOTO 300

IF (UNBLNK().EQ.'L') GOTO 300

IF (UNBLNK().EQ.'L') GOTO 300

IF (UNBLNK().EQ.'L') GOTO 300

CALL ERROR(7, UNRECOGNIZE)
 0060
 0061
 0062
 0064
 0065
 0066
 0067
 0068
 0069
 0070
 0071
0072
0073
0074
                                 CALL ERROR (7, UNRECOGNIZE)
GOTO 300
0075
                 500
                                 COL=COL+1
 0076
                                 CALL EVALC GOTO 300
0077
0078
0079
                600
                                 CALL SKIPV
GOTO 300
 0080
0081
0082
0083
                 800
                                 CALL ERROR(8, MISSINGEND)
                                 RETURN
 0084
 0085
                 900
                                 CALL BUFFER(%REF(*
                                                                                  .END'))
 0086
                                 CALL OUTPUT_LINE
 0087
                                 RETURN
```

0088

END

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PROGRAM SECTIONS

	Name	Bytes	Attributes
0 1 2 3 4 5 6 7	SCODE SPDATA SLOCAL TEXT VARS LOGVAR OUT FACNAMS	372 18 92 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
	Total Space Allocated	65030	

ENTRY POINTS

Address Type Name

0-0000000 STRUCT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-0000014 6-0000080 6-0000090 5-00000000	1+4	BINVAL CURSEV LASTFACNUM OUTFLAG	4-0000000C 4-00000010 2-0000000C 2-00000004		CODE ERRCNT MISSINGEND SYNTAY	4-00000004 2-00000000 4-00000000	L+1 I+4	COL GETNUM NUM UNRECOGNIZE	6-00000088 4-00000008 6-00000000	1 * 4 1 * 4 1 * 4	CURNUM INDEX OUTCOL

ARRAYS

Address	Туре	Name	Bytes	Dimensions
7-00000000 3-000000E4 6-00000094 3-00000000 3-00000134 3-0000004 6-00000004 3-00000064	L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 32 132 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-00000023	100	0-0000070	200	0-00000084	300	0-00000141	500	0-00000151	600	0-0000015B	800

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VAX-11 FORTRAN V3.4-56 Page 23 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR; T

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name Type Name Type Name Type Name Type Name Type Name BUFFER OUTPUT_LINE ERROR SKIPV EVALC UNBLNK L+1 GETIDENT L+1 GETLIN MOVNAM

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EVALC PROGRAM SECTIONS	L 8 16-Sep-1984 02:16:11
Name Bytes	Attributes
0 \$CODE 43 2 \$LOCAL 12 3 TEXT 324 4 VARS 24 5 LOGVAR 4 6 OUT 164 7 FACNAMS 64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocater 64603	
ENTRY POINTS	
Address Type Name	
0-00000000 EVALC	

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VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014 6-0000080 6-0000090	1 * 4	BINVAL CURSEV LASTFACNUM	4-0000000C 4-00000010 4-00000000	I * 4 I * 4 I * 4	CODE ERRCNT NUM	4-0000004 2-0000000 6-0000000	L*1	COL GENCMP OUTCOL	6-0000088 4-0000008 5-0000000	1+4	CURNUM INDEX OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-0000000 3-000000E4 6-0000094 3-0000000 3-00000134 3-000000A4 6-0000004 3-00000064	L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 32 132 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)

LABELS

Address Label 0-0000001D 100

EVALC

VAX-11 FORTRAN V3.4-56 Page 26 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR; T

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name Type Name Type Name GETCLST GETCVAL

L*1 UNBLNK

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00000
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0001
0002
                    ROUTINE TO HANDLE MDL C<[NAME][,[CON][,[BASE][,INCR]]] SYNTAX
                    SUBROUTINE GETCLST
INCLUDE 'SRC$:CVTMSGCOM'
LOGICAL*1 GETIDENT, UNBLNK, GETNUM, GETLIN
0004
0005
0049
0050
0051
                     INCR=1
                     CALL MOVNAM (MACRO NAME PREFIX)
IF (GETIDENT().EQ..FALSE.) GOTO 100
0052
0053
                     CALL MOVNAM (NAME, PREFIX)
IF (UNBLAK().NE. , ) GOTO 200
0054
0055
          100
0056
                     COL=COL+1
0057
                     IF (GETIDENT().EQ..FALSE.) GOTO 200
                    IF (LENGTH(PREFIX)+LENGTH(NAME).GE.MAXSYMSIZ) THEN CALL ERROR(2, NAMTOOLONG)
0058
0059
0060
                               PREF 1 X (1) = 0
0061
                    END IF
0065
                    CALL CONCAT (PREFIX, NAME, PREFIX)
GOTO 250
0063
                    CALL CONCAT (PREFIX, TREF ('$C_'), PREFIX)
IF (UNBLNK().NE.',') GOTO 400
0064
0065
          250
0066
0067
0068
                     COL=COL+1
                     IF (GETNUM()) BASE=NUM
                     IF (UNBLNK().NE.',') GOTO 400
0069
                     COL=COL+1
0070
                     IF (GETNUM().EQ..FALSE.) GOTO 500
0071
                     INCR=NUM
0072
          400
                     IF (UNBLNK().EQ.':'.OR.UNBLNK().EQ.O) GOTO 700
          500
0073
                    CALL ERROR(1, SYNTAX)
          700
                    IF (GETLIN().NE..TRUE.) GOTO 1500
IF (UNBLNK().EQ.'>') GOTO 1600
0074
0075
0076
                    IF (GETIDENT().NE..TRUE.) GOTO 900
0077
                    IF (.NOT.GETIDENT()) GOTO 700
                    CALL MOVNAM (NAME, SYMBOL NAME)
IF (UNBLNK().EQ. , ) GOTO 800
0078
0079
                    CODE = BASE
0080
0081
                    BASE=BASE+INCR
0082
                    GOTO 850
0083
          800
                    If (BASE.NE.O.OR.INCR.NE.1) CALL ERROR(5,BASE)
0084
                    COL=COL+1
0085
                    IF (GETNUM()) GOTO 820
0086
                    CALL ERROR (3, NONUMBER)
          820
850
0087
                    CODE=NUM
0088
                    CONTINUE
          900
0089
                    IF (UNBLNK().NE.':'.AND.UNBLNK().NE.0) GOTO 500
0090
                    CALL GETMSG
0091
                    6010 700
0092
          1500
                    CALL ERROR(6, NOCLOSEANGLE)
0093
          1600
                    RETURN
0094
                    END
```

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PROGRAM SECTIONS

	N4 Re	Bytes	Attributes
1234	SCODE SPDATA SLOCAL TEXT VARS LOGVAR OUT FACNAMS	422 24 176 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
	Total Space Allocated	65170	

ENTRY POINTS

Address Type Name

0-00000000

GETCLST

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-00000000 6-0000088 4-00000008 2-00000010 2-00000000	I * 4 I * 4 I * 4 I * 4	BASE CURNUM INDEX NONUMBER SYNTAX	4-00000014 6-00000080 6-00000090 4-00000000	1 4 4	BINVAL CURSEV LASTFACNUM NUM	4-0000000C 4-00000010 2-00000008 6-00000000	I * 4 I * 4 I * 4	CODE ERRCNT NAMTOOLONG OUTCOL	4-00000004 2-00000004 2-00000014 5-00000000	I*4 I*4	COL INCR NOCLOSEANGLE OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000 3-000000E4 6-00000094 3-00000000 3-00000134 3-0000004 6-00000004 3-00000084 3-000000064	L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRG_NAME MACRG_JUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 16 32 132 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)

LABELS

Address	Label										
0-0000002B	100	0-0000007C	200	0-00000084	250	0-00000000	400	0-000000E9	500	0-000000F1	700
0-0000013E	800	0-0000016B	820	0-0000176	850		900	0-000019C	1500	0-00001A5	1600

GETCLST

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FUNCTIONS AND SUBROUTINES REFERENCED

Type Name Type Name Type Name ERROR MOVNAM CONCAT 1+4 LENGTH

L+1 GETIDENT L+1 UNBLNK

Type Name L+1 GETLIN

Type Name GETMSG

Type Nam.

L+1 GETNUM

```
0001
0002
0003
0004
0005
0049
                  ROUTINE TO HANDLE MDL "C SYMBOL, VALUE" SYNTAX
                                    SUBROUTINE GETCVAL
INCLUDE 'SRC$:CVTMSGCOM'
LOGICAL+1 GETIDENT, UNBLNK, GETNUM
CALL CONCAT(MACRO_NAME, *REF('$C_'), PREFIX)
IF (GETIDENT().EQ..FALSE.) GOTO 100
CALL MOVNAM(NAME, SYMBOL_NAME)
IF (UNBLNK().NE.',') GOTO 100
COL=COL+1
IF (GETNUM().EQ..FALSE.) GOTO 100
CODE=NUM
0050
0051
0052
0053
0054
0055
0056
                                     CODE = NUM
                                     IF (UNBLNK().NE.';'.AND.UNBLNK().NE.0) GOTO 100 CALL GETMSG RETURN
0057
0058
0059
                                     CALL ERROR (1, SYNTAX)
                   100
0060
                                     RETURN
END
0061
0062
```

PROGRAM SECTIONS

Name	Bytes	Attribules
SCODE SPDATA SLOCAL TEXT VARS LOGVAR OUT FACNAMS	121 8 52 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NCWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVP REL GBL SHR NOEXE RD WRT LONG PIC OVP REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64729	

ENTRY POINTS

Address Type Name
0-00000000 GETCVAL

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014 6-0000080 4-0000000	1 = 4	BINVAL CURSEV NUM	4-00000000 4-00000010 6-00000000	1 * 4	CODE ERRCNT OUTCOL	4-00000004 4-00000008 5-00000000	1+4	COL INDEX OUTFLAG	6-0000088 6-0000090 2-0000000	I+4	CURNUM LASTFACNUM SYNTAX

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-0000000 3-00000E4 6-0000094 3-0000000 3-00000134 3-0000004 6-0000004 3-00000064	L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 16 32 132 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)

LABELS

Address Label 0-00000070 100

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GETCVAL

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FUNCTIONS AND SUBROUTINES REFERENCED

Type Name Type Name Type Name Type Name Type Name Type Name L+1 CONCAT ERROR L+1 GETIDENT GETMSG L+1 GETNUM MOVNAM

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0001	(SKIP ALL LINES WHICH ARE PART OF THE MOL V STATEMENT
0004 0005 0049	•	SUBROUTINE SKIPV INCLUDE 'SRCS: CVTMSGCOM'
0050	100	LOGICAL*1 GETLIN,UNBLNK IF (GETLIN().NETRUE.) GOTO 300 IF (UNBLNK().EQ.'>') RETURN
0052 5053 0054 0055	300	GOTO 100 CALL ERROR(6,NOCLOSEANGLE) RETURN END

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PROGRAM SECTIONS

	Name	Bytes	Attributes	
123456	SCODE SPDATA SLOCAL TEXT VARS LOGVAR OUT FACNAMS	46 24 324 24 164 64032	PIC CON REL LCL SHR NOEXE RD NOWRT LON PIC CON REL LCL NOSHR NOEXE RD WRT LON PIC OVR REL GBL SHR NOEXE RD WRT LON PIC OVR REL GBL SHR NOEXE RD WRT LON PIC OVR REL GBL SHR NOEXE RD WRT LON PIC OVR REL GBL SHR NOEXE RD WRT LON	NG NG NG NG NG NG

64622

Total Space Allocated

ENTRY POINTS

Address Type Name

0-0000000 SKIPV

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014 6-0000080 2-0000000	1+4	BINVAL CURSEV NOCLOSEANGLE	4-00000000 4-00000010 4-00000000	Ī + 4	CODE FRRCNT NUM	4-0000004 4-0000008 6-0000000	1+4	COL INDEX OUTCOL	6-0000088 6-0000090 5-0000000	I * 4	CURNUM LASTFACNUM OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-0000000 3-00000E4 6-0000094 3-0000000 3-0000094 3-00000134 3-0000004 3-00000084 3-00000064	L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 16 32 132 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)

LABELS

 Address
 Label
 Address
 Label

 0-00000009
 100
 0-00000025
 300

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FUNCTIONS AND SUBROUTINES REFERENCED

Type Name ERROR Type Name

L+1 GETLIN

Type Name

L+1 UNBLNK

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```
0001
0003
                     OUTPUT AN ERROR MESSAGE
0004
                      SUBROUTINE ERROR (MSGID)
          INCLUDE 'SRCS: CVTMSGCOM'
C OUTPUT CONTENTS OF 'LINE' VIA PRINT
0005
0049
0050
           C AND ERROR MESSAGE
0051
                     TYPE 99
0052
0053
                     FORMAT('$%$YSMSG-E-')
GOTO (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15),MSGID
TYPE 1000
           99
0054
                      GOTO 200
0055
0056
           1000
                      FORMAT('+error in error processing')
0057
                     TYPE 101
0058
0059
                     GOTO 200
                     FORMAT('+syntax error')
           101
0060
                     TYPE 102
0061
                     GOTO 200
0062
0063
           102
                     FORMAT('+symbol or string too long')
                     TYPE 103
0064
                     GOTO 200
                     FORMAT('+missing value')
0065
           103
0066
                     TYPE 104
0067
                     GOTO 200
                     FORMAT('+line too long')
0068
           104
0069
0070
0071
                     TYPE 105
                     GOTO 200
FORMAT(!+start or increment value error')
           105
0072
0073
                     TYPE 106
GOTO 200
0074
0075
                     FORMAT('+missing close angle bracket')
TYPE 107
GOTO 200
           106
0076
0077
                     FORMAT('+unrecognizable statement type')
          107
                     TYPE 108
GOTO 200
0078
0079
                     FORMAT( + missing end statement )
0080
          108
                     FORMAT('+missing end statement')
TYPE 109
GOTO 210
FORMAT('+can''t open FILES.DAT')
TYPE 110,FSPEC
GOTO 210
FORMAT('+can''t open ',80A1)
TYPE 111
0081
0082
0083
0084
0085
0086
           110
                     TYPE 111
GOTO 200
0087
           11
0088
                     fORMAT('+syntax error in message definition')
0089
                     TYPE 112
GOTO 200
0090
           12
0091
                     FORMAT('+message identifier too long')
TYPE 113
GOTO 200
0092
0093
          112
13
0094
0095
                     FORMAT('+message identified by value is already in use')
           113
                     TYPE 114
0096
           14
0097
                     GOTO 200
                     FORMAT('+facility name too long')
TYPE 115
GOTO 210
0098
           114
0099
           15
0100
```

ERROR

L 9 16-Sep-1984 02:16:11 VAX-11 FORTRAN V3.4-56 Page 38 5-Sep-1984 15:13:15 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

PROGRAM	SECTIONS

	Name	Bytes	Attributes
0 1 2 3 4 5 6 7	SCODE SPDATA SLOCAL TEXT VARS LOGVAR OUT FACNAMS	591 495 28 324 24 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
	Total Space Allocated	65662	

ENTRY POINTS

Address Type Name 0-00000000 ERROR

VARIABLES

Address	Type	Name	Address Type	Name	Address Type	Name	Address	Type	Name
4-00000014 6-0000080 6-0000090 5-0000000	I+4	BINVAL CURSEV LASTFACNUM OUTFLAG	4-0000000C I+4 4-0000010 I+4 AP-0000004a I+4	ERRENT	4-00000004 I *4 4-00000008 I *4 4-00000000 I *4	COL INDEX NUM	6-00000088 2-0000000 6-0000000	I +4	CURNUM K Outcol

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000 3-000000E4 6-00000094 3-00000000 3-00000134 3-0000004 3-0000004 3-00000064	L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 16 32 132 136 32	(32, 2001) (80) (16) (132) (16) (16) (132) (132) (16) (32)

LABELS

Address	Label										
0-000005D	1	0-00000077	2	0-00000091	3	0-000000AB	4	0-00000005	5	0-000000DF	6
0-000000f9	7	0-00000113	8	0-0000012D	9	0-00000147	10	0-0000016B	11	0-00000184	12
0-0000019D	13	0-00000186	14	0-000001CF	15	1-000001D7	97	1-000001E8	98'	1-00000000	99'
1-000002B	101'	1-0000038	102'	1-0000058	103'	1-00000069	104	1-000007A	105'	1-0000009C	106'

ERROR

| M 9 | 16-Sep-1984 02:16:11 | VAX-11 FORTRAN V3.4-56 | Page 39 | S-Sep-1984 15:13:15 | DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR; 1 | 1-00000008B 107' | 1-00000105 113' | 1-00000165 113' | 1-00000166 114' | 1-00000180 115' | 0-00000168 200 | 0-00000248 210 | 1-0000000E 1000'

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

1+4 LENGTH

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```
0002
                       EVALUATE A CONSTANT EXPRESSION
                       LOGICAL FUNCTION GETNUM+1
INCLUDE 'SRCS:CVTMSGCOM'
LOGICAL+1 GETVAL
0004
0005
0049
0050
0051
0052
0053
0054
0055
0056
                       LOGICAL+1 BINOPS(8)
DATA BINOPS/'+','-','+','/','&','!','\','a'/
                       GETNUM=.FALSE.
                       NUM=0
                       IF (GETVAL().EQ..FALSE.) GOTO 300
                       GETNUM=.TRUE.
                       NUM=BINVAL
DO 200 I=1.8
IF (LINE(COL).EQ.BINOPS(I)) GOTO 400
            100
0058
0059
            200
300
400
                       CONTINUE
0060
                       RETURN
0061
                       COL=COL+1
                       IF (GETVAL().EQ..TRUE.) GOTO 500
CALL ERROR(3,MISSINGVALUE)
GOTO 300
GOTO (610,620,630,640,650,660,670,680),I
0062
0063
0064
0065
            500
                       NUM=NUM+BINVAL
0066
            610
0067
                       GOTO 100
0068
            620
                       NUM=NUM-BINVAL
0069
                       GOTO 100
0070
            630
                       NUM=NUM+BINVAL
0071
                       GOTO 100
0072
0073
0074
0075
            640
                       NUM=NUM/BINVAL
                       GOTO 100
           650
                       NUM=NUM.AND.BINVAL
                       GOTO 100
0076
0077
           660
                       NUM=NUM.OR.BINVAL
                       GOTO 100
0078
           670
                       NUM=NUM.XOR.BINVAL
0079
                       GOTO 100
0080
           680
                       NUM=NUM+2++BINVAL
0081
                       GOTO 100
```

0082

END

GETNUM PROGRAM SECTIONS				B 10 16-Sep-1984 02:16:11 5-Sep-1984 15:13:15	VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER:[MSGFIL	.SRC]CVTMSG.FOR; T
Name		Bytes	Attributes			
O SCODE 1 SPDATA 2 SLOCAL 3 TEXT 4 VARS 5 LOGVAR 6 OUT 7 FACNAMS		246 40 324 24 164 64032	PIC CON REL LCL PIC CON REL LCL PIC CON REL LCL PIC OVR REL GBL PIC OVR REL GBL PIC OVR REL GBL PIC OVR REL GBL PIC OVR REL GBL	SHR NOEXE RD NOWR NOSHR NOEXE RD WR SHR NOEXE RD WR SHR NOEXE RD WR SHR NOEXE RD WR SHR NOEXE RD WR	RT LONG RT LONG RT LONG RT LONG	
Total Space Al	located	64838				
ENTRY POINTS						
Address Type	Name					
0-00000000 L+1	GETNUM					
VARIABLES						
Address Type	Name	Address	Type Name	Address Type N	lame Address	Type Name
4-00000014 I+4 6-00000080 I+4 6-00000000 I+4	BINVAL CURSEV LASTFACNUM OUTFLAG	4-00000000 4-00000010 2-00000010	I*4 CODE I*4 ERRCNT I*4 MISSINGVALUE	2-0000000C I*4 I	OL 6-000008 4-000000 IUM 6-000000	8 I+4 INDEX
ARRAYS						
Address Type	Name	Bytes () imensions			
2-00000000 L*1 7-00000000 L*1 3-000000E4 L*1 6-00000094 L*1 3-00000000 L*1 3-0000004 L*1 3-0000004 L*1 6-00000004 L*1 3-0000004 L*1 3-00000064 L*1	BINOPS FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	80 16 132 16 16 32 132	(8) (32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)			

LABELS

Address

0-0000002D 100 0-0000008C 620 0-000000E1 680

Label

Address

0-00000099

Label

Address

0-0000004A 0-000000A6

Label

Address

0-0000004F 0-000000B4 Label

Address

0-0000006B 0-000000C5 Label

Address

0-0000007f 610 0-00000003 670

Label

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C 10 16-Sep-1984 02:16:11 VAX-11 FORTRAN V3.4-56 Page 42 5-Sep-1984 15:13:15 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBRCHITINES REFERENCED

Type Name

Type Name

ERROR

L+1 GETVAL

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```
0001
0002
           Č
                       GET A TERM VALUE (USED BY GETNUM)
                       LOGICAL FUNCTION GETVAL+1
INCLUDE 'SRC$:CVTMSGCOM'
LOGICAL+1 UNBLNK,TMP
0004
0049
0050
                        SIGN=0
                       BINVAL=0
0051
0052
                        GETVAL=.FALSE.
                        IF (UNBLAK().NE.'-') GOTO 100
0054
0055
0056
0057
                        SIGN=1
                        COL=COL+1
                       IF (LINE(COL).NE.'A') GOTO 180
IF (LINE(COL+1).NE.'X') GOTO 180
DO 150 COL=COL+2,120
           100
0058
                       TMP=LINE(COL)
IF ((TMP.LE.'9').AND.(TMP.GE.'0')) GOTO 130
IF ((TMP.GT.'F').OR.(TMP.LT.'A')) GOTO 400
TMP=TMP-'A'+'9'+1
0059
0060
0061
0062
           130
                       GETVAL=.TRUE.
0064
                       BINVAL=BINVAL +16+(TMP-'0')
0065
           150
                        CONTINUE
0066
                       GOTO 300
                       DO 200 COL=COL.120
IF (LINE(COL).LT.'0') GOTO 400
IF (LINE(COL).GT.'9') GOTO 400
0067
           180
0068
0069
0070
                       GETVAL=.TRUE.
0071
                       BINVAL=BINVAL + 10+(LINE(COL) - '0')
0072
            200
                        CONTINUE
            300
                       CALL ERROR (4, TOOLONG)
0074
                        GETVAL=.FALSÉ.
0075
           400
                       IF (SIGN.EQ.1) BINVAL =-BINVAL
0076
                       RETURN
0077
                       END
```

CETUAL		E 10	44 500 504 117 4 54
GETVAL		E 10 16-Sep-1984 02:16:11 VAX 5-Sep-1984 15:13:15 DIS	(-11 FORTRAN V3.4-56 Page SK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
PROGRAM SECTIONS			
Name	Bytes Attributes		
O SCODE 1 SPDATA 2 SLOCAL 3 TEXT 4 VARS 5 LOGVAR 6 OUT 7 FACNAMS	283 PIC CON REL 4 PIC CON REL 32 PIC CON REL 324 PIC OVR REL 24 PIC OVR REL 4 PIC OVR REL 164 PIC OVR REL 64032 PIC OVR REL	LCL SHR NOEXE RD NOWRT LON LCL NOSHR NOEXE RD WRT LON GBL SHR NOEXE RD WRT LON GBL SHR NOEXE RD WRT LON GBL SHR NOEXE RD WRT LON	1G 1G 1G 1G 1G 1G
Total Space Allocated	64867		
ENTRY POINTS			
Address Type Name			
0-00000000 L*1 GETVAL			
VARIABLES			
Address Type Name	Address Type Name	Address Type Name	Address Type Name
4-00000014 I*4 BINVAL 6-0000008C I*4 CURSEV 4-00000000 I*4 NUM 2-00000000 L*1 TMP	4-0000000C I*4 CODE 4-00000010 I*4 ERRCNT 6-00000000 I*4 OUTCOL 2-00000008 I*4 TOOLONG	4-00000004 I*4 COL 4-00000008 I*4 INDEX 5-00000000 I*4 OUTFLA	6-00000088 I*4 CURNUM 6-0000090 I*4 LASTFACNUM 2-00000004 I*4 SIGN
ARRAYS			
Address Type Name	Bytes Dimensions		
7-00000000 L*1 FACILITIES 3-000000E4 L*1 FSPEC 6-00000094 L*1 LASTPREFIX 3-00000000 L*1 LINE 3-00000094 L*1 MACRO_NAME 3-00000134 L*1 MACRO_SUFFIX 3-0000004 L*1 OUTLINE 3-0000004 L*1 PREFIX 3-00000064 L*1 SYMBOL_NAME	64032 (32, 2001) 80 (80) 16 (16) 132 (132) 16 (16) 16 (16) 32 (32) 132 (132) 16 (16) 32 (32)		
LABELS			
Address Label Address	Label Address La	bel Address Label	Address Label Address Label
0-0000002B 100 0-0000008E 0-00000106 400	130 ** 15	0 0-000000AF 180	** 200 0-00000FB 300

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FUNCTIONS AND SUBROUTINES REFERENCED

Type Name Type Name ERROR L+1 UNBLNK F١

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0001
0002
0003
                   GET THE NEXT STRING TOKEN IN THE LINE, FALSE IF NONE
                                      LOGICAL FUNCTION GETIDENT+1 INCLUDE 'SRCS:CVTMSGCOM'
0004
0005
0049
                                      LOGICAL+1 UNBLNK
0050
                                     GETIDENT=.FALSE.

IF (UNBLNK().EQ.';'.OR.UNBLNK().EQ.O) GOTO 400

DO 200 COL=COL,120

IF (LINE(COL).EQ.'$') GOTO 100

IF (LINE(COL).EQ.'') GOTO 100

IF ((LINE(COL).EQ.'') GOTO 100

IF ((LINE(COL).EQ.'') GOTO 400

IF (GETIDENT.EQ..FALSE.) GOTO 400

IF ((LINE(COL).LT.'O').OR.(LINE(COL).GT.'9')) GOTO 400

GETIDENT=.TRUE.

TRUNCATE ANY TOKENS GREATER THAN MAXTOKS17
0051
0052
0054
0055
0056
0057
0058
0059
                   100
                                     TRUNCATE ANY TOKENS GREATER THAN MAXTOKSIZ

IF (I.GE.MAXTOKSIZ) GOTO 200

NAME(I)=LINE(COL)
0060
0061
0062
0063
                                      I=I+1
                                      CONTINUE
0064
                   200
                                      CALL ERROR(4,TOOLONG)
NAME(1)=0
0065
0066
0067
                   400
                                      RETURN
0068
                                      END
```

H 10 16-Sep-1984 02:16:11 VAX-11 FORTRAN V3.4-56 Page 47 5-Sep-1984 15:13:15 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

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PROGRAM SECTIONS

Name	Bytes	Attributes
O SCODE 1 SPDATA 2 SLOCAL 3 TEXT 4 VARS 5 LOGVAR 6 OUT 7 FACNAMS	199 32 324 24 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64783	

ENTRY POINTS

Address Type Name

0-0000000 L+1 GETIDENT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-0000014 6-0000080 6-0000090 2-0000008	1+4 1+4		4-0000000C 4-0000010 4-00000000	I+4	CODE ERRCNT NUM	4-0000004 2-0000004 6-0000000	1 * 4	COL I OUTCOL	6-0000088 4-0000008 5-0000000	I+4	CURNUM INDEX OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-0000000 3-000000E4 6-00000094 3-00000000 3-00000134 3-000000A4 6-00000004 3-00000064	L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 16 32 132 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)

LABELS

Address	Label	Address	Label	Address	Label
0-0000007F	100	0-000000A1	200	0-000000B8	400

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

Type Name

ERROR

L+1 UNBLNK

K 10 16-Sep-1984 02:16:11 VAX-11 FORTRAN V3.4-56 Page 5-Sep-1984 15:13:15 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1 GENCMP PROGRAM SECTIONS Name Bytes Attributes O SCODE PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG 2 \$LOCAL Total Space Allocated 140 ENTRY POINTS Address Type Name 0-0000000 L+1 GENCMP VARIABLES Address Type Name 2-00000004 1+4 1 ARRAYS Address Type Name Bytes Dimensions AP-00000004a L+1 STRNG1 AP-00000008a L+1 STRNG2 100 (100) LABELS Address Label Address Label Address Label 100 0-00000053 200 0-00000057 300

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IDENT 16-Sep-1984 02:16:11 VAX-11 FORTRAN V3.4-56 Page 52 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;T PROGRAM SECTIONS Bytes Attributes Name O SCODE PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG Ž ŠLOCAL Total Space Allocated 140 ENIRY POINTS Address Type Name 0-00000000 L+1 IDENT VARIABLES Address Type Name 2-00000004 1+4 1 ARRAYS Address Type Name Bytes Dimensions AP-00000004a L+1 STRNG1 AP-0000008a L+1 STRNG2 100 (100) 100 (100) LABELS Address Label Address Label Address Label 100 0-00000053 200 0-00000057 300

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0066

0067

0068

500

600

CONTINUE

RETURN

END

CALL ERROR (2, TOOLONG)

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Page 53

PROGRAM SECTIONS

	Name	Bytes	Attributes
01234567	SCODE SPDATA SLOCAL TEXT VARS LOGVAR OUT FACNAMS	164 184 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG FIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
	Total Space Allocated	64900	

ENTRY POINTS

Address Type Name

0-00000000

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VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-0000014 6-000008C 2-000006C	1+4	BINVAL CURSEV J	4-0000000C 4-00000010 6-00000090	I * 4 I * 4	CODE ERRCNT LASTFACNUM	4-00000004 2-00000064 4-00000000		COL I Num	6-00000088 4-0000008 6-0000000	1+4	CURNUM INDEX OUTCOL

ARRAYS

	_			
Address	ype	Name	Bytes	Dimensions
7-0000000 3-00000E4 6-0000094 3-00000094 3-00000134 3-0000004 6-0000004 AP-00000084 AP-00000088 AP-000000060 2-0000600 3-0000064		FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX STRNG1 STRNG2 STRNG3 STRNG4 SYMBOL_NAME	64032 80 16 132 16 16 32 132 100 100 100 100	(32, 2001) (80) (16) (132) (16) (16; (32) (132) (16) (100) (100) (100) (100) (32)

CONCAT VAX-11 FORTRAN V3.4-56 Page 55 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR; T LABELS Address Label Address Label Address Label Address Label Address Label Address Label 100 0-0000004E 200 * * 0-00000075 400 300 500 0-000000A3 600 FUNCTIONS AND SUBROUTINES REFERENCED Type Name ERROR

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VAX-11 FORTRAN V3.4-56 Page 56 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR; T

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PROGRAM SECTIONS
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	neme	Bytes	Attributes
1 4 4 6 7	SCODE SPDATA SLOCAL TEXT VARS LOGVAR OUT FACNAMS	62 40 324 24 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
	Total Space Allocated	64654	

ENTRY POINTS

Address Type Name
0-00000000 I+4 LENGTH

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-0000014 6-00000080 4-00000000	1+4	BINVAL CURSEV NUM	4-0000000C 4-00000010 6-00000000	1+4	CODE ERRCNT OUTCOL	4-00000004 4-00000008 5-00000000	1*4	COL INDEX OUTFLAG	6-00000088 6-00000090 2-00000004		CURNUM LASTFACNUM TOOLONG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-0000000 3-000000E4 6-0000094 3-0000000 3-00000134 3-0000004 6-0000004 AP-00000004 3-00000064	L*1 L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX STRNG SYMBOL_NAME	64032 80 16 132 16 16 32 132 16 100 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (100) (32)

LABELS

Address	Label	Address	Label
**	100	0-00000036	200

LENGTH FUNCTIONS AND SUBROUTINES REFERENCED Type Name ERROR

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PROGRAM SECTIONS

Name	Bytes	Attributes
LOGVAR	69 60 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64681	

ENTRY POINTS

Address Type Name

0-00000000

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VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014 6-00000080 6-00000090 2-00000004	1+4	BINVAL CURSEV LASTFACNUM TOOLONG	4-0000000C 4-00000010 4-00000000	I * 4 I * 4 I * 4	CODE ERRCNT NUM	4-00000004 2-0000000 6-0000000	1+4	COL I OUTCOL	6-00000088 4-00000008 5-00000000	1+4	CURNUM INDEX OUTFLAG

ARRAYS

Address	Туре	Name	Bytes	Dimensions
7-0000000 3-000000E4 6-0000094 3-00000094 3-00000134 3-0000004 6-0000004 AP-0000004	L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX STRNG1	64032 80 16 132 16 16 32 132 16	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (100)
AP-00000008a 3-00000004	L+1 L+1	STRNG2 SYMBOL_NAME	100 32	(100) (32)

LABELS

Address Label Address Label 100 0-00000044 200

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

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16 (16) 32 (32)

Address

0-0000004C 200

Label

3-00000084

Address

0-0000003E 100

LABELS

L+1 PREFIX

Address

0-00000047 150

Label

3-000000C4 L+1 SYMBOL_NAME

Label

OP

CO

**

```
0001
0002
                       GET THE NEXT LINE FROM THE INPUT FILE
                       LOGICAL*1 FUNCTION GETLIN
INCLUDE 'SRC$:CVTMSGCOM'
LOGICAL*1 UNBLNK
READ(1,99,END=100) LEN,(LINE(K),K=1,LEN)
FORMAT(Q,120A1)
0004
0005
0049
0050
0051
            99
0052
                       LINE(LEN+1)=0
                       COL=1
0054
                       GETLIN=.TRUE.
0055
0056
                       OUTPUT THE LINE IF COMMENT OR NULL LINE
0057
0058
                       IF (UNBLNK().EQ.';'.OR.UNBLNK().EQ.O) THEN BIAS=OUTCOL+1-COL
0059
                                  CALL BUFFER(LINE)
IF (UNBLNK().EQ.';') OUTLINE(BIAS+COL) = '!'
CALL OUTPUT_LINE
0060
0061
0062
                       END IF
0064
                       RETURN
0065
0066
0067
0068
           100
                       GETLIN=.FALSE.
                       RETURN
                       END
```

PROGRAM SECTIONS

	Name	Bytes	Attributes							
11	LOGVAR	195 32 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCI NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG							
	Total Space Allocated	64781								

ENTRY POINTS

Address Type Name 0-00000000 L*1 GETLIN

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-0000000C 6-0000008 2-0000000 6-0000000	I+4 I+4	BIAS CURNUM K OUTCOL	4-0000014 6-0000080 6-0000090 5-0000000	I+4 I+4	BINVAL CURSEV LASTFACNUM OUTFLAG	4-0000000C 4-0000010 2-0000004		CODE ERRCNT LEN	4-00000004 4-00000008 4-00000000	I * 4 I * 4 I * 4	COL INDEX NUM

ARRAYS

Address	Туре	Name	Bytes	Dimensions
7-0000000 3-000000E4 6-00000094 3-00000094 3-00000134 3-000000A4 6-00000004 3-00000084 3-000000C4	1 * 1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 32 132 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (32)

LABELS

Address	Label	Address	Label
1-00000000	991	0-00000000	100

GETLIN

N 11 16-Sep-1984 02:16:11 VAX-11 FORTRAN V3.4-56 Page 66 5-Sep-1984 15:13:15 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;T

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name Type Name Type Name BUFFER OUTPUT_LINE L*1 UNBLNK

PROGRAM SECTIONS

Name	Bytes	Attributes
O SCODE 1 SPDATA 2 SLOCAL 3 TEXT 4 VARS 5 LOGVAR 6 OUT 7 FACNAMS	88 40 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64680	

ENTRY POINTS

Address Type Name
0-0000000 BUFFER

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-0000014 6-0000080 6-0000090	I+4 I+4	CURSEV LASTFACNUM	4-0000000C 4-00000010 2-0000004	Ī +4	CODE ERRCNT LINE_OVERFLOW	4-00000004 2-00000000 4-00000000	I+4	COL I Num	6-00000088 4-00000008 6-0000000	Ī+4	CURNUM INDEX OUTCOL

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000 3-000000E4 6-00000094 3-00000094 3-00000134 3-0000004 6-00000004 AP-000000064	L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX STRING SYMBOL_NAME	64032 80 16 132 16 16 32 132 16 128 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (128) (32)

LABELS

Address	Label	Address	Label	Address	Label
• •	10	0-000004E	100	0-000004F	200

D 12 16-Sep-1984 02:16:11 VAX-11 FORTRAN V3.4-56 Page 69 5-Sep-1984 15:13:15 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FU2:1

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

ERROR

L15

; F

16-Sep-1984 02:16:11 VAX-11 FORTRAN V3.4-56 Page 71 5-Sep-1984 15:13:15 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR; T

PROGRAM SECTIONS

Name Bytes Attributes

0 \$CODE PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG

Total Space Allocated 104

ENTRY POINTS

Address Type Name

0-00000000 **BUFNUM**

VARIABLES

Address Type Name Address Type Name Address Type Name

2-0000000C I+4 I AP-000000042 I+4 NUMBER 2-0000000 CHAR STRING

ARRAYS

Address Type Name Bytes Dimensions

9 (9) 2-00000000 L+1 CHARS

LABELS

Address Label Address Label

10 0-0000002A 20

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name Type Name

> FORSCNV_OUT_I BUFFER

LI!

◂

Name	Bytes	Attributes
O SCODE 1 SPDATA 2 SLOCAL 3 TEXT 4 VARS 5 LOGVAR 6 OUT 7 FACNAMS	75 6 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64633	

ENTRY POINTS

Address Type Name

0-00000000

OUTPUT_LINE

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014 6-00000080 6-00000090	1+4	BINVAL CURSEV LASTFACNUM	4-0000000C 4-0000010 4-00000000	Î * 4	CODE ERRCNT NUM	4-00000004 4-00000008 6-0000000	I+4	COL INDEX OUTCOL	6-0000088 2-0000000 5-0000000	I+4	CURNUM K OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-0000000 3-000000E4 6-0000094 3-00000094 3-00000134 3-000000A4 6-00000004 3-00000064	L*1 L*1 L*1 L*1 L*1 L*1 L*1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX SYMBOL_NAME	64032 80 16 132 16 16 32 132 16 32	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (132) (132)

LABELS

Address Label

1-00000000 100'

Page 74

```
0002
                  OPEN THE OUTPUT FILE
0003
                  SUBROUTINE OPEN OUTPUT INCLUDE 'SRC$:CVTMSGCOM' LOGICAL*1 STRING(128)
0004
0005
0049
0050
                  CLOSE (UNIT=2)
                  CALL MOVNAM (FSPEC, STRING)
DO 10 POS=LENGTH (STRING), 1,-1
IF (STRING (POS).EQ.'.') GOTO 20
0051
0052
0054
                  CONTINUE
                  20
0056
0057
0058
0059
         30
                  CONTINUE
0060
         40
                  POS=POS+1
                  THE OUTPUT FILE WILL BE PUT IN THE DEFAULT DIRECTORY, SAME NAME, .MSG
0061
0062
0063
                  OPEN(UNIT=2, NAME=STRING(POS), TYPE='NEW', CARRIAGECONTROL='LIST', ERR=100)
                  OUTCOL=0
0064
                  RETURN
         100
0065
                  CALL ERROR (9, FILNOTFND)
0066
                  RETURN
```

PROGRAM SECTIONS

0067

Name	Bytes	Attributes
O SCODE 1 SPDATA 2 SLOCAL 3 TEXT 4 VARS 5 LOGVAR 6 OUT 7 FACNAMS	158 220 324 24 4 164 64032	PIC CON REL LCL SHR EXE RD NOWRT LONG PIC CON REL LCL SHR NOEXE RD NOWRT LONG PIC CON REL LCL NOSHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64935	

ENTRY POINTS

Address Type Name

0-00000000 OPEN_OUTPUT

END

; F

ARRAYS

2-00000080

Address	Type	Name	Bytes	Dimensions
7-0000000 3-000000E4 6-00000094 3-0000000 3-00000134 3-0000004 6-0000004 3-0000004 2-0000000	1 * 1 1	FACILITIES FSPEC LASTPREFIX LINE MACRO_NAME MACRO_SUFFIX NAME OUTLINE PREFIX STRING SYMBOL_NAME	64032 80 16 132 16 132 132 16 128	(32, 2001) (80) (16) (132) (16) (16) (32) (132) (16) (128) (32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
**	10	0-00000036	20	**	30	0-00000077	40	0-00000095	100

FUNCTIONS AND SUBROUTINES REFERENCED

POS

1+4

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
	ERROR		FOR\$CLOSE		FORSOPEN	I + 4	LENGTH		MOVNAM

COMMAND QUALIFIERS

FORTRAN /LIS=LIS\$:CVTMSG/OBJ=OBJ\$:CVTMSG MSRC\$:CVTMSG

/CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
/DEBUG=(NOSYMBOLS,TRACEBACK)
/STANDARD=(NOSYNTAX,NOSOURCE_FORM) /SHOW=(NOPREPROCESSOR, NOINCLODE, MAP) /F77 /NOG_FLOATING /14 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19 LIS VOZ

LI VO

COMPILATION STATISTICS

Run Time: Elapsed Time: Page Faults: Dynamic Memory: 24.98 seconds 88.10 seconds 238 212 pages

AH-BT13A-SE **EQUIPMENT CORPORATION** DIGITAL VAX/VMS V4.0 CONFIDENTIAL PROPRIETARY AND illian I, E TETT I II In south IE T 1 Midie-E Billiam | BES ALBALIALIA TETRUTT STE B 180 INE TO A MAN BANK